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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/560,542	12/13/2005	Katsushi Ohizumi	64649 (70904)	5176
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EDWARDS ANGELL PALMER & DODGE LLP			ADAMS, EILEEN M	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/560,542	OHIZUMI ET AL.	
	Examiner	Art Unit	
	EILEEN ADAMS	2481	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 14 October 2010.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
- 4) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 5) Claim(s) 1-19,22 and 26-30 is/are pending in the application.
 - 5a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 6) Claim(s) _____ is/are allowed.
- 7) Claim(s) 1-19,22 and 26-30 is/are rejected.
- 8) Claim(s) _____ is/are objected to.
- 9) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 10) The specification is objected to by the Examiner.
- 11) The drawing(s) filed on 31 December 2005 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 12) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

<input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	<input type="checkbox"/> Interview Summary (PTO-413)
<input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
<input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	<input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____ .	<input type="checkbox"/> Other: _____ .

DETAILED ACTION

RESPONSE TO ARGUMENTS

1. A request for continued examination under 37 CFR 1.116, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.116, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.116. Applicant's submission filed on October 14, 2010.
2. Applicant's amendment and remarks filed October 14, 2010 with respect to the June 14, 2010 rejections of Claims 1-19, 22, and 26-30 under 35 U.S.C. §103(a) have been fully considered but are not persuasive. Accordingly, said claims stand rejected.
3. Regarding Applicant's first argument:

"By the foregoing Amendment, Applicants are proposing the Claims 1 and 26 be amended so as to clarify the following features of the present invention: (i) that the 'scene', the 'key' and the 'program' are correlated with each other, and (ii) that the main function of the key is masked, and the program is correlated with the key whose function is masked.

Applicants respectfully submit that the above-proposed amendments to

the claims of the present application are supported in this application as originally filed at Claims 8 and 10, and by Fig. 2 and the related discussion thereof. Furthermore, Applicants respectfully submit that the foregoing clarifying amendments serve to clarify not only Applicants' intended scope of the claims of the present application, but also more clearly and definitively indicate the distinctions of the present invention from the cited Miwa reference. Applicants, therefore, respectfully submit that despite the teachings, disclosures and suggestions in the art available at the time that the present invention was made, the art cited and relied upon by the Examiner is not sufficient in and of itself and/or in combination with the presumed knowledge of one of ordinary skill in the art at the time of the present invention (without the direction of Applicants' specification) to render the claims as hereinabove presented unpatentable. Consequently, Applicants respectfully submit that the Miwa disclosure would not have disclosed, taught or suggested the currently claimed invention to one skilled in the art at the time that the present invention was made. Therefore, entry of the foregoing Amendments, reconsideration and allowance of this application with the above-amended claims in response to this submission is respectfully requested." [Page 5 paragraph 5]

Examiner respectfully submits the cited prior art renders Applicant's claimed invention unpatentable as Tsumagari and Miwa are obvious combinations and read upon the

amended Claims 1 and 26. Therefore said claims rejections stand. (See rejection contained herein).

35 USC § 112 Sixth Paragraph

4. MPEP 2181 discloses that a claim limitation will be presumed to invoke 35 U.S.C. 112 6th paragraph if it meets the following 3-prong analysis:
 - a. the claim limitations must use a non-structural term;
 - b. the non-structural term must be modified by functional language;
 - c. the non-structural term must not be modified by sufficient structure, material, or acts for achieving the specified function.
5. **Claims 1-19 and 22** disclose limitations which are presumed to invoke 35 U.S.C. 112 6th paragraph as said limitations meet said 3-prong analysis.
6. Regarding **Claim 1, information reading means for reading out** is considered to read on Fig. 1 reading section 14 (US 2007-0097799 [0054]); and **executing means for executing** is considered to read on Fig. 1 executing section 15 (US 2007-0097799 [0056]);
7. Regarding **Claim 2, program reading means for reading out** is considered to read on Fig. 1 reading section 14 (US 2007-0097799 [0054]).
8. Regarding **Claim 3, image information reading means for reading out** is considered to read on Fig. 10 reading section 214 (US 2007-0097799 [0125]).

9. Regarding **Claim 4, text information reading means for reading out** is considered to read on Fig. 10 reading section 214 (US 2007-0097799 [0125]).
10. Regarding **Claim 5, audio information reading means for reading out** is considered to read on Fig. 14 reading section 314 (US 2007-0097799 [0163]).
11. Regarding **Claim 8, main function control information reading means for reading out** is considered to read on Fig. 1 reading section 14 (US 2007-0097799 [0054]).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

12. **Claims 1-11, 13, 19, 22, and 26-30** are rejected under 35 U.S.C. 103(a) as being unpatentable over in view of are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsumagari et al (Pub No.: US 2003-0161615) in view of Miwa et al (US Patent No.: 6,553,179).
13. **As per Claim 1** Tsumagari discloses **An information reproducing apparatus for controlling** (Tsumagari discloses an enhanced navigation system using digital information medium), **an information reproducing apparatus for**

controlling, in accordance with a manipulation input (a DVD-Video player incorporating an enhanced navigation system ENAV system), **reproduction of content data read out from a content recording medium** (as disclosed at paragraph [0022] and exhibited in figure 1) **the apparatus comprising:**

additional function information reading means for reading out, from the content recording medium, additional function information indicating an additional function program (FIG. 30 shows an example of the data structure of DVD video disc 1 which can be played back by DVD-Video player 100 in FIG. 1 ... DVD-Video contents 10 having an MPEG2 program stream structure ... Also, enhanced navigation to be abbreviated as ENAV hereinafter contents 30, which allow diversified playback of video contents or AV contents 10, can be recorded in another recording area, the presence of which is officially recognized in the DVD-Video standard [0058]) **correlated with the manipulation input; and additional function executing means for executing the additional function program in response to the manipulation input** (DVD-Video player 100 comprising ENAV engine 300 for playing back and processing ENAV contents 30 which include video information text, still image, moving image, or animation, storyboard still image, scenario text, and audio data and the like, the contents being controlled by event controller 310 which receives user events corresponding to user operations [menu call, title jump, playback start/stop/pause and so forth] and generates the events corresponding to the

user event control signal as disclosed at paragraphs [0058], [0072], [0088], [0176], and [0093]);

wherein the content recording medium stores data having a data structure in which: manipulation input is correlated with main function control information which indicates whether or not execution of a main function intrinsically corresponding to the manipulation input is approved (Tsumagari discloses DVD-Video playback engine 200 and ENAV playback engine 300 displaying a menu upon a user's request of pressing a menu button on a remote controller as disclosed at paragraphs [0186]-[0190]), **and in a case where the main function is not approved, further correlated with the additional functional program** (Tsumagari discloses when a user presses a menu button on the remote controller, a user event controller (310) in ENAV engine (300) receives this signal, and when the operation which is not expected as any user even is executed at the user operation unit, even generation-command- property processor (320) outputs an event control signal that blocks a user event corresponding to user's operation at that time so that controller (310) can inhibit a specific event from being transmitted according to a script described in the ENAV contents as disclosed at paragraph [0218]);

Tsumagari does not disclose but Miwa discloses **for each set of a start and an end position specifying a scene in the content data indication if manipulation input is allowed or prohibited; and the data is separated from the content data** (Miwa discloses an optical disc for coordinating the use of

special reproduction functions and a reproduction device for the optical disc where a "mask flag" included in the PCI and PGC information which is used to indicate whether or not certain functions are allowed or not during reproduction of certain VOB's, including the invalidation of activation of functions which use fast-forward as exhibited in figures 9A, 10A, 12-13, and 35 as well as their corresponding texts with particular emphasis on, e.g., column 23, lines 6-11 and column 18, lines 42-65).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the apparatus of Tsumagari to include a "mask flag" included in the PCI and PGC information which is used to indicate whether or not certain functions are allowed or not during reproduction of certain VOB's, including the invalidation of activation of functions which use fast-forward, as taught by Miwa, for the purpose of ensuring that information regarded as important by the title developer, such as commercials, definitely be displayed to the user (see e.g., column 4, lines 33-38).

14. **As per Claim 2 Tsumagari discloses The information reproducing apparatus as set forth in claim 1, further comprising:**

additional function program reading means for reading out, from the content recording medium, an additional function program which indicates the additional function and which is stored in the content recording medium together with the content data (FIG. 30 shows an example of the data

structure of DVD video disc 1 which can be played back by DVD-Video player 100 in FIG. 1 ... DVD-Video contents 10 having an MPEG2 program stream structure ... Also, enhanced navigation to be abbreviated as ENAV hereinafter contents 30, which allow diversified playback of video contents or AV contents 10, can be recorded in another recording area, the presence of which is officially recognized in the DVD-Video standard [0058]).

15. **As per Claim 3 Tsumagari discloses The information reproducing apparatus as set forth in claim 1, further comprising:**
image information reading means for reading out, from the content recording medium, image information which indicates the additional function and which is stored in the content recording medium together with the content data (See said analysis for Claims 1 and 2);
wherein: the additional function executing means displays the image information in response to the manipulation input ("The data body of ENAV contents contains audio data, still image data, text data, moving image data, and the like. The ENAV playback information contains a markup language, script language, or the like, which describes playback methods display method, playback order, playback switch sequence, selection of data to be played back, and the like of the ENAV contents data body and/or DVD-Video contents 10" [0065]).

16. **As per Claim 4** Tsumagari discloses **The information reproducing apparatus as set forth in claim 1, further comprising:**
text information reading means for reading out, from the content recording medium, text information which indicates the additional function and which is stored in the content recording medium together with the content data; wherein: the additional function executing means displays the text information in response to the manipulation input (See said analysis for Claims 1 and 3).
17. **As per Claim 5** Tsumagari discloses **The information reproducing apparatus as set forth in claim 1, further comprising:**
audio information reading means for reading out, from the content recording medium, audio information which indicates the additional function and which is stored in the content recording medium together with the content data (“ENAV contents 30 can be classified into ENAV playback information, and the data body of ENAV contents. The data body of ENAV contents contains audio data, still image data, text data, moving image data, and the like” [0065]); **wherein: the additional function executing means reproduces the audio information in response to the manipulation input** (See said analysis for Claim 1).

18. **As per Claim 6** Tsumagari discloses **The information reproducing apparatus as set forth in claim 5, wherein:**
the additional function information includes a flag indicating whether or not sound of the content data is muted while the audio information is reproduced (Tsumagari discloses ENAV playback information comprising commands variables, including a command and variable which are used to change an audio level (a command that instructs to change an audio level and a variable that designates an audio level after change), as well as audio output controller (354) which has a function of selecting audio output of ENAV engine when audio data is out from only ENAV engine but not DVD-Video playback engine as well as switching and selecting audio output of the ENAV engine and the DVD-Video playback engine in accordance with an output method of user's choice from the user operation unit as disclosed at paragraphs [0115] and [0125]-[0126]).

19. **As per Claim 7** Tsumagari discloses **The information reproducing apparatus as set forth in any one of claims 1 through 6, wherein:**
the additional function information is so set as to correspond to each scene of the content data (Tsumagari discloses the ENAV contents are displayed in synchronism (or connection or combination) with a change in

contents (change in scene) of DVD-Video contents (10) while playing back a scene of a movie or drama as DVD-Video contents as disclosed at [0181]).

20. **As per Claim 8** Tsumagari discloses **The information reproducing apparatus as set forth in any one of claims 1 through 6, further comprising:**

main function control information reading means for reading out, from the content recording medium, main function control information indicating whether or not execution of a main function is approved, which main function is a function intrinsically corresponding to the manipulation input; and main function control means for controlling, in accordance with the main function control information, the execution of the main function, which execution is carried out in response to the manipulation input

(Tsumagari discloses DVD-Video playback engine 200 and ENAV playback engine 300 displaying a menu upon a user's request of pressing a menu button on a remote controller as disclosed at paragraphs [0186]-[0190]).

21. **As per Claim 9** Tsumagari discloses **The information reproducing apparatus as set forth in claim 8, wherein:**

the main function control information is so set as to correspond to each scene of the content data ("Upon display in the mixed frame mode in FIG. 12 mixed mode, a scenario, storyboard, information of a movie, information of the casts, and the like are switched and displayed in synchronism or connection or combination with a change in contents - change in scene - of DVD-Video

contents 10, while playing back a scene of a movie or drama as DVD-Video contents 10. These pieces of information of the scenario and the like to be displayed in synchronism, connection, or combination with the playback video of DVD-Video can use not only ENAV contents 30 recorded on DVD video disc 1 but also ENAV contents 30W" [0180])

22. **As per Claim 10** Tsumagari discloses **The information reproducing apparatus as set forth in claim 8, wherein:**
a function for notifying information concerning disapproval of execution of the main function is assigned, as an additional function, to the manipulation input corresponding to the main function whose execution is disapproved by the main function control information (Tsumagari discloses when a user presses a menu button on the remote controller, a user event controller 310 in ENAV engine 300 receives this signal, and when the operation which is not expected as any user even is executed at the user operation unit, even generation-command- property processor 320 outputs an event control signal that blocks a user event corresponding to user's operation at that time so that controller 310 can inhibit a specific event from being transmitted according to a script described in the ENAV contentsas disclosed at paragraph [0218]).

23. **As per Claim 11** Tsumagari discloses **The information reproducing apparatus as set forth in claim 8, wherein:**

a function for notifying information representing that the manipulation input is prohibited is assigned, as an additional function, to the manipulation input corresponding to the main function whose execution is disapproved by the main function control information ([0217] At this time, event generation.cndot.command/property processor 320 outputs a video.cndot.audio output control signal as a "full video mode that means output of video and audio data of the DVD-Video playback engine" (step ST176). Then, video.cndot.audio output unit 350 outputs video.cndot.audio data of DVD-Video playback engine 200 as a video.cndot.audio output (D352, D354). ENAV engine 300 returns to an event wait state (step ST178). [0217] That is, since the process in step S148 in FIG. 16 or step ST170 in FIG. 17 is provided as needed, even when the description of a given script in the ENAV playback information in ENAV contents 30 (or 30W) is grammatically correct but it includes contents (command, parameter, and the like) that "currently running" DVD-Video playback engine 200 cannot cope with" [0219]) (See said analysis for Claim 10).

24. **As per Claim 13 Tsumagari discloses The information reproducing apparatus as set forth in any one of claims 1 through 5, wherein:**
the manipulation input corresponds to either (i) manipulation of suspending the reproduction of the content data or
(ii) manipulation of halting the reproduction of the content data, and a function for notifying information different from the content data that is

being reproduced is assigned, as an additional function, to the manipulation input (Tsumagari discloses a menu call operation that produces a DVD-Video menu or displays a still image at the moment of pausing playback which continues until the user makes the next operation (menu button operation, pause button operation, or the like), as disclosed at paragraph [0207]).

25. **As per Claim 19** Tsumagari discloses **The information reproducing apparatus as set forth in claim 10, wherein:**
the additional function is a function for notifying the information such that the information is overlaid with the content data that is being reproduced
(Tsumagari discloses an interactive mode using the ENAV contents, the interactive mode including a mixed frame mode that displays DVD-Video playback images and ENAV contents playback image together as disclosed at paragraphs [0165]-[0167]).
26. **As per Claim 22** Tsumagari discloses **The information reproducing apparatus as set forth in claim 13, wherein: the additional function is a function for notifying the information such that the information is overlaid with the content data that is being reproduced** (See said analysis for Claim 19).
27. **As per Claim 26** Tsumagari discloses **A method for controlling, in accordance with a manipulation input, reproduction of content data read out, from a content recording medium, said method comprising the steps**

of (See said analysis for Claim 1):

(a) reading out, from the content recording medium, additional function information indicating an additional function program correlated with the manipulation input (See said analysis for Claim 1); **and**

(b) executing the additional function program in response to the manipulation input (See said analysis for Claim 1);
wherein the content recording medium stores data having a data structure in which the:

manipulation input is correlated with main function control information which indicates whether or not execution of a main function intrinsically corresponding to the manipulation input is approved, and in a case where the main function control information indicates that the execution of the main function is not approved, further correlated with the additional functional program (See said analysis for Claim 1).

Tsumagari does not disclose but Miwa discloses **for each set of a start and an end position specifying a scene in the content data indication if manipulation input is allowed or prohibited; and the data is separated from the content data** (See rationale and motivation as applied in Claim 1).

28. **As per Claim 27 Tsumagari discloses A content recording medium (Fig. 30) storing the content data and the additional function information such that the content data and the additional function information is able to be**

supplied to the information reproducing apparatus as set forth in claim 1

(See said analysis for Claim 1).

29. **As per Claim 28** Tsumagari discloses **A control program encoded on a non-transitory computer-readable medium** (Fig. 30) **for operating the information reproducing apparatus as set forth in any one of claims 1 through 6, and for causing a computer to serve as each means of the information reproducing apparatus** (See said analysis for Claim 1).
30. **As per Claim 29** Tsumagari discloses **A non-transitory computer-readable recording medium storing a control program for operating the information producing apparatus** (Fig. 30) **as set forth in any one of claims 1 through 6, and for causing a computer to serve as each means of the information reproducing apparatus** (See said analysis for Claim 1).
31. **As per Claim 30** Tsumagari discloses **The information reproducing apparatus as set forth in claim 8 wherein:**
whether or not execution of the main function intrinsically corresponding to the manipulation input is approved is controlled with respect to the scene specified by a set of start and end positions in the time information; and the additional function correlated with the manipulation input is carried out (See said analysis for Claims 8 and 10).
32. **Claim 12** are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsumagari et al (Pub. No.: US 2003/0161615) in view of Miwa et al. (US Patent

6,553,179) as applied to **Claims 1-11, 13, 19, 22, and 26-30**, and further in view of Evans et al. (US Patent 7,469,410).

33. **As per Claim 12** Tsumagari discloses **the information reproducing apparatus as set forth in claim 8, wherein:**

Tsumagari and Miwa do not disclose but Evans discloses **a function for notifying information representing an approved manipulation input is assigned, as an additional function, to the manipulation input corresponding to the main function whose execution is disapproved by the main function control information** (Evans discloses playback control methods and arrangements for a DVD player and a controlled unlocking or restricted access feature to all or portions of DVD content (110) controlled by player application (102), in which the application can notify the user of the required parental level that is required to continue playing DVD content (110), as disclosed at column 5, lines 61-65 and column 6, lines 45-51).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Tsumagari and Miwa to include discloses a "controlled unlocking" or restricted access feature to all or portions of DVD content (110) controlled by player application (102), in which the application can notify the user of the required parental level that is required to continue playing DVD content (110), as taught by Evans, for the

purpose of negating a user having to guess a required level through trial and error.

34. **Claims 14-18** are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsumagari et al (Pub. No.: US 2003/0161615) in view of Miwa et al. (US Patent 6,553,179) as applied to **Claims 1-11, 13, 19, 22, and 26-30**, and further in view of Proehl (US Patent 6,614,844).

35. **As per Claim 14** Tsumagari discloses **The information reproducing apparatus as set forth in any one of claims 1 through 5, wherein:**

Tsumagari and Miwa do not disclose but Proehl discloses **the manipulation input corresponds to manipulation of changing either (i) a reproduction direction of the content data or (ii) reproduction speed of the content data, and a function for notifying information different from the content data that is being reproduced is assigned, as an additional function, to the manipulation input** (Proehl discloses a method for watermarking a video display based on viewing mode and displaying different types of data during a fast-forward operation as disclosed at column 2, line 58 through column 3, line 15, and exhibited in figures 3A-3F.).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Tsumagari and

Miwa to include displaying different types of data during a fast-forward operation, as taught by Proehl, for the purpose of providing a usable viewer content even during a fast playback mode during which the regular video content may progress too quickly to provide any meaningful information.

36. **As per Claim 15** Tsumagari discloses **The information reproducing apparatus as set forth in any one of claims 1 through 5, wherein:**

Tsumagari does not disclose but Proehl discloses **the manipulation input corresponds to manipulation of carrying out fast- forward of the content data, and a function for notifying information different from the content data that is being reproduced is assigned, as an additional function, to the manipulation input** (Proehl discloses a method for watermarking a video display based on viewing mode and displaying different types of data during a fast-forward operation as disclosed at column 2, line 58 through column 3, line 15, and exhibited in figures 3A-3F.).

37. **As per Claim 16** Tsumagari discloses **The information reproducing apparatus as set forth in any one of claims 1 through 5, wherein:**

Tsumagari does not disclose but Proehl discloses **the manipulation input corresponds to manipulation of carrying out fast-forwarding of the content data, and a function for (i) carrying out**

**the fast-forwarding of the content data until a predetermined position and
(ii) reproducing the content data at normal speed
from the predetermined position is assigned, as an additional function, to
the manipulation input** (Proehl discloses a method for watermarking a video display based on viewing mode and watermark data can be added to selected key frames in the video stream to act as bookmarks for those selected frames so they can be easily located during fast playback as disclosed at column 2, line 65 through column 3, line 1 and exhibited in figure 3A)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Tsumagari and Miwa to include watermark data can be added to selected key frames in the video stream to act as bookmarks for those selected frames so they can be easily located during fast playback, as taught by Proehl, for the purpose of providing a usable viewer content even during a fast playback mode during which the regular video content may progress too quickly to provide any meaningful information.

38. **As per Claim 17 Tsumagari discloses The information reproducing apparatus as set forth in any one of claims 1 through 5, wherein:
a function different from the function intrinsically corresponding to the manipulation input is assigned, as an additional function, to the manipulation input** (See said analysis for Claim 15).

39. **As per Claim 18** Tsumagari discloses **The information reproducing apparatus as set forth in claim 17, wherein:**

the manipulation input corresponds to reproduction manipulation carried out during the reproduction of the content data (See said analysis for Claim 16), **and a function different from a reproduction function is assigned, as an additional function, to the manipulation input** (See said analysis for Claim 17).

Conclusion

40. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eileen Adams whose telephone number is (571) 270-3688. The examiner can normally be reached on Monday-Friday from 7:00-4:00. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Vaughn can be reached on (571) 272-3922. The fax phone number for the organization where this application or proceeding is assigned is 571-270-4688.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair>-

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/EILEEN ADAMS/
Examiner, Art Unit 2481

/William C. Vaughn, Jr./
Supervisory Patent Examiner, Art Unit 2481